UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,937	07/03/2003	Takashi Hashimoto	2003_0881A	3943

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EXAMINER
LAI, VINCENT

ART UNIT	PAPER NUMBER
2181	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
Office Action Summary	10/611,937	HASHIMOTO ET AL.
	Examiner	Art Unit	
	Vincent Lai	2181	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>17 November 2006</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>16-20</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>16-20</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All b)☐ Some * c)☐ None of:

      1.☒ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date <u>11/17/06</u>.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____ .

DETAILED ACTION

Priority

1.   Acknowledgment is made of applicant's claim for foreign priority under 35

U.S.C. 119(a)-(d).

Response to Amendment

2.   Acknowledgment is made of the Amendments to the Specification, Title,

Abstract, and Claims.

3.   All previous rejections and objections are withdrawn after considering

amendments.

Response to Arguments

4.   Applicant's arguments with respect to claims 16-20 have been considered but are

moot in view of the new ground(s) of rejection.

Claim Objections

5.   Claim 16 is objected to because of the following informalities: It is unclear as to

how the two different limitations regarding the second data transfer founds in lines 12-

13, and 14-15 differ from each other. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6.   Claims 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Baker

et al (U.S. Patent # 6,347,344 B1), herein referred to as Baker.

Claims 1-15 have been cancelled.

As per **claim 16**, Baker discloses a data processing system, comprising:

a first data processing unit operable to perform data processing according to a

program control (See figure 1A: There is CPU C0 and C1 which can be first data

processing units);

a plurality of second data processing units, each of said second data processing

units being operable to perform data processing under wired logic control, and each of

said plurality of second data processing units comprising (See figure 20 and column 43,

lines 55-59: The fixed function unit has multiple units associated with it for performing a

certain operation):

a calculating unit (See figure 20: 3D unit 64 performs the operations); and

a selector unit (See figure 20 and column 22, lines 41-51: The transfer engine

(with its round-robin priority scheduler) is used to select appropriate areas to transfer

data);

a storage unit operable to store data (See figure 20: D Cache 616);

a first data transfer unit operable to connect said first data processing unit with

each of said plurality of second data processing units, via said storage unit (See figure

1A and 20 and column 31, lines 27-30: Data transfer switch 112 is operable to connect

various functional units); and

a second data transfer unit operable to connect each of said plurality of second

data processing units with each other (See figure 20: The DTS I/F 614 unit attaches the

various processing units of the fixed function unit), wherein

said second data transfer unit is operable to connect at least one of said plurality

of second data processing units in series to another second data processing unit (See

figure 20: The DTS I/F 614 unit attaches the various processing units of the fixed

function unit), and

said selector unit is operable to determine a destination of a data transfer from

among each of said plurality of second data processing units according to a link map

table (See figure 13, column 23, lines 7-12, and column 30, lines 40-60: Destination

descriptors are available to be used).

As per **claim 17**, Baker discloses the data processing system according to Claim

16, wherein said first data processing unit is operable to control the data transfer via

said second data transfer unit (See figure 20: The DTS I/F 614 is attached to the data

transfer switch 112, which is controlled by the memory controller directly. This means

that the transfer switch 112 does control the DTS 614 unit).

As per **claim 18**, Baker discloses the data processing system according to claim

16, further comprising a first data transfer control unit operable to control the data

transfer via said second data transfer unit (See figure 1A and 20: The data transfer

switch is controlled by a memory control 124).

Claim Rejections - 35 USC § 103

7.   Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Baker in view of Lee (U.S. Patent # 6,005,937).

As per **claim 19**, Baker teaches the data processing system according to Claim

16.

Baker does not teach the data processing system with its fixed function unit is

capable of encoding.

Lee does teach, wherein said second data processing unit is operable to perform

an encoding process (See abstract).

It would have been obvious to a person having ordinary skill in the art at the time

the invention was made to have modified Baker such that the data processing system

with its fixed function unit is capable of encoding. Both Baker and Lee teach a fixed

function unit within a multimedia system (much like that of the invention) and where as

Baker had identified 3D graphics as the type of operation to be optimized, Lee choose

encoding/decoding. Both are meant to improve a multimedia system and thus if one

having ordinary skill in the art desired the data sharing/transferring capabilities of Baker

but wanted encoding/decoding to be optimized, one could have combined such an

invention with that of Lee. It is noted that the 3D operations have no bearing on the

data transfer scheme of Baker.

As per **claim 20**, Baker teaches the data processing system according to Claim

16.

Baker does not teach the data processing system with its fixed function unit is

capable of decoding.

Lee does teach, wherein said second data processing unit is operable to perform

a decoding process (See abstract).

It would have been obvious to a person having ordinary skill in the art at the time

the invention was made to have modified Baker such that the data processing system

with its fixed function unit is capable of decoding. Both Baker and Lee teach a fixed

function unit within a multimedia system (much like that of the invention) and where as

Baker had identified 3D graphics as the type of operation to be optimized, Lee choose

encoding/decoding. Both are meant to improve a multimedia system and thus if one

having ordinary skill in the art desired the data sharing/transferring capabilities of Baker

but wanted encoding/decoding to be optimized, one could have combined such an

invention with that of Lee. It is noted that the 3D operations have no bearing on the

data transfer scheme of Baker.

Conclusion

8.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

9.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vincent Lai whose telephone number is (571) 272-6749.

The examiner can normally be reached on M-F 8:00-5:30 (First BiWeek Friday Off).
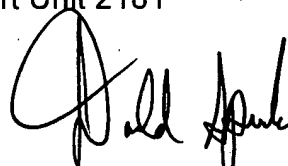
If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vincent Lai
Examiner
Art Unit 2181

vl
January 26, 2007

DONALD SPARKS
SUPERVISORY PATENT EXAMINER